Drought Task Force Summary 4 September 2012

Dr. Dennis Todey
South Dakota State Climatologist
SDSU Extension/AES/ABE



Drought Issues Summary

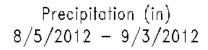
- Conditions static worsening
 - A little rain in the east/north
 - Warm temperatures returned
 - DM increased coverage (more likely coming)
 - Fall planting concerns
- Transitioning to water/environmental drought
 - Sioux Falls more watering restrictions
 - Continued fire issues
- New Outlooks
 - No real improvement foreseen, yet

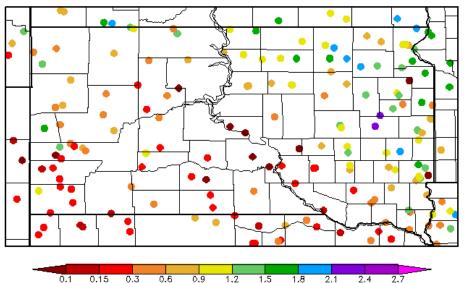


Other notes

- Eight stations June August driest on record
 - Vermillion, Yankton, Centerville, Ft. Meade, Sioux Falls, Marion,
 Winner, Menno
 - Four in top five driest, White Lake, Academy, Mitchell, Clear Lake
- June –August record temperatures fewer
 - Belle Fourche, Martin,
 - Another 7 in top 5 warmest
- Yields
 - Private forecast would say 60% yield loss in the southeast.
- Near record state highs for August last week Academy 113 F.
 - Several others 110 F or above

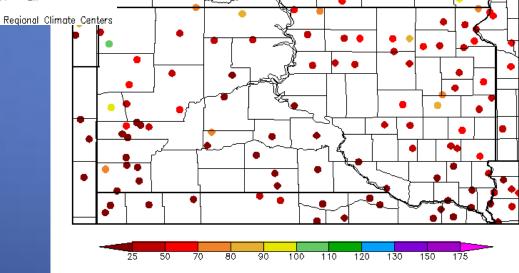






Percent of Normal Precipitation (%) 8/5/2012 - 9/3/2012

Generated 9/4/2012 at HPRCC using provisional data.

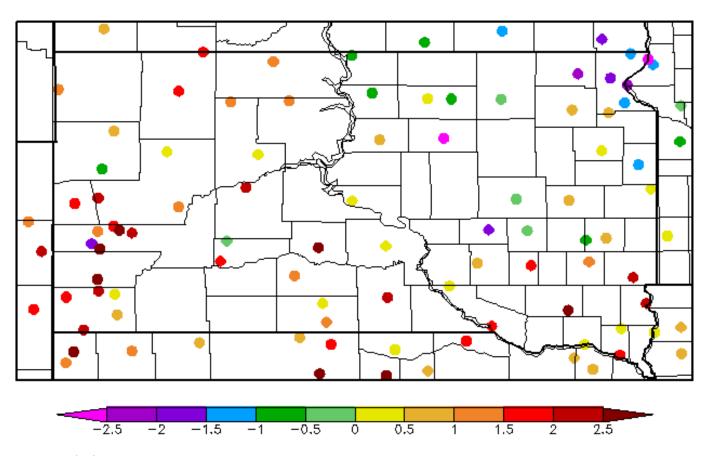




Generated 9/4/2012 at HPRCC using provisional data.

Regional Climate Centers

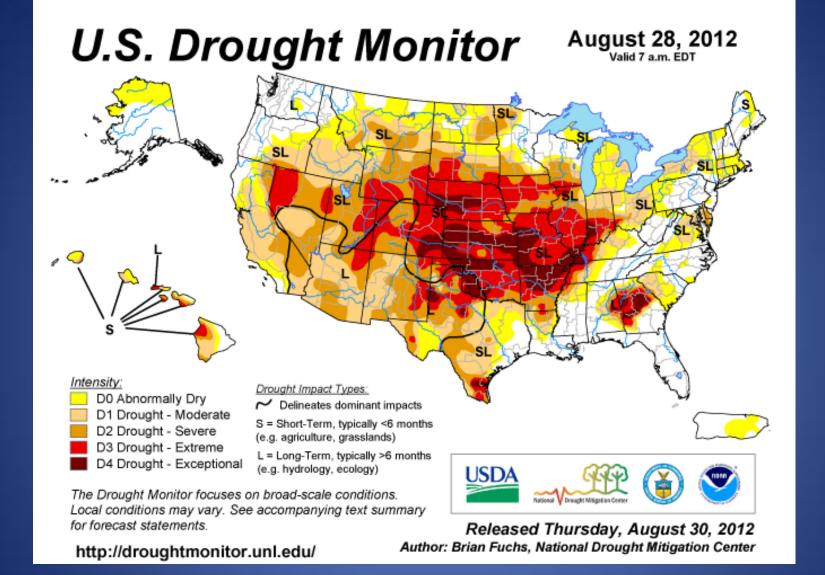
Departure from Normal Temperature (F) 8/5/2012 - 9/3/2012



Generated 9/4/2012 at HPRCC using provisional data.

Regional Climate Centers







Changes will be coming this week due to Isaac – precipitation.

U.S. Drought Monitor

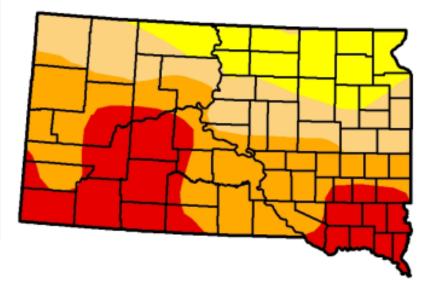
August 28, 2012

Valid 7 a.m. EST

South Dakota

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	83.30	60.98	26.44	0.00
Last Week (08/21/2012 map)	0.00	100.00	82.78	59.29	17.95	0.00
3 Months Ago (05/29/2012 map)	76.94	23.06	0.41	0.00	0.00	0.00
Start of Calendar Year (12/27/2011 map)	48.14	51.86	13.86	2.11	0.00	0.00
Start of Water Year (09/27/2011 map)	71.37	28.63	7.36	0.00	0.00	0.00
One Year Ago (08/23/2011 map)	82.28	17.72	0.52	0.00	0.00	0.00



Intensity:

D0 Abnormally Dry D1 Drought - Moderate D2 Drought - Severe

D3 Drought - Extreme D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu



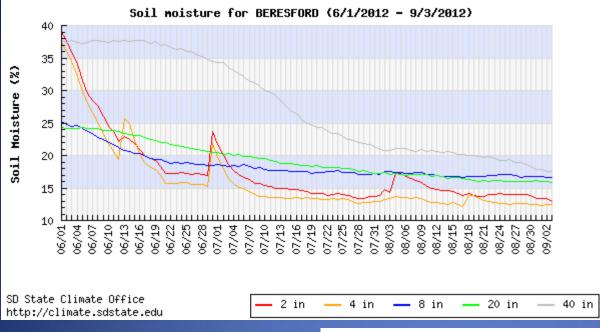




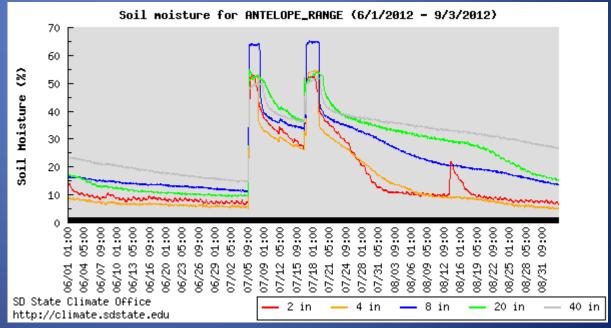
Released Thursday, August 30, 2012 Brian Fuchs, National Drought Mitigation Center

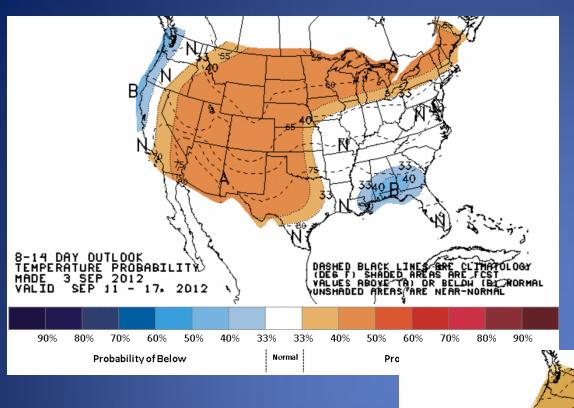


Changes will be coming this week —likely increased coverage of higher end drought.



SD State Climate
Office
Soil Moisture





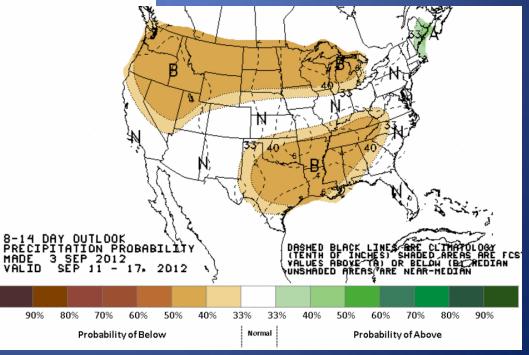
8-14 day

Temperature

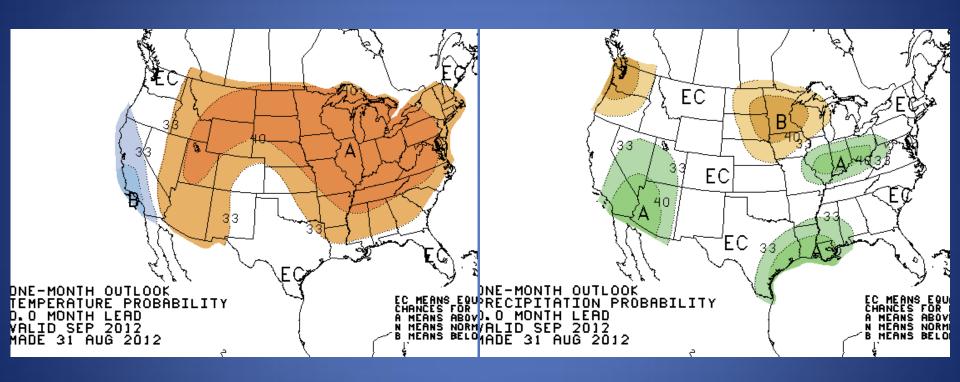
Precipitation

http://www.cpc.ncep.noaa.gov

Issued daily



September Temperature and Precipitation Probabilities

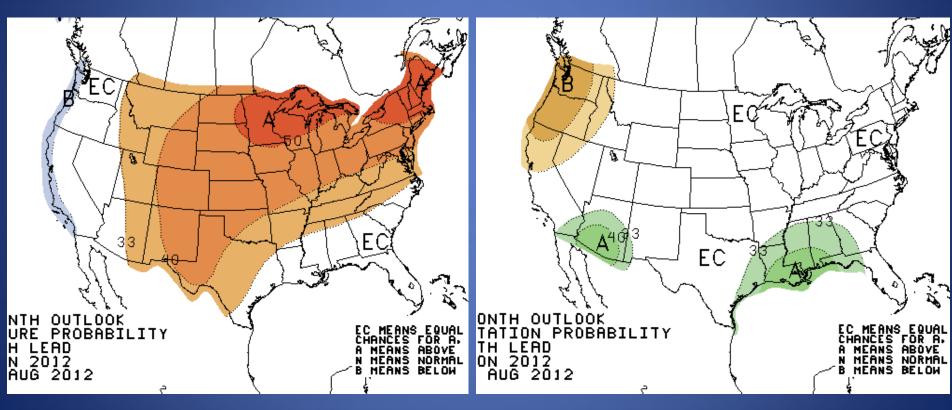


Temperature

Precipitation

3 Month Temperature and Precipitation Probabilities

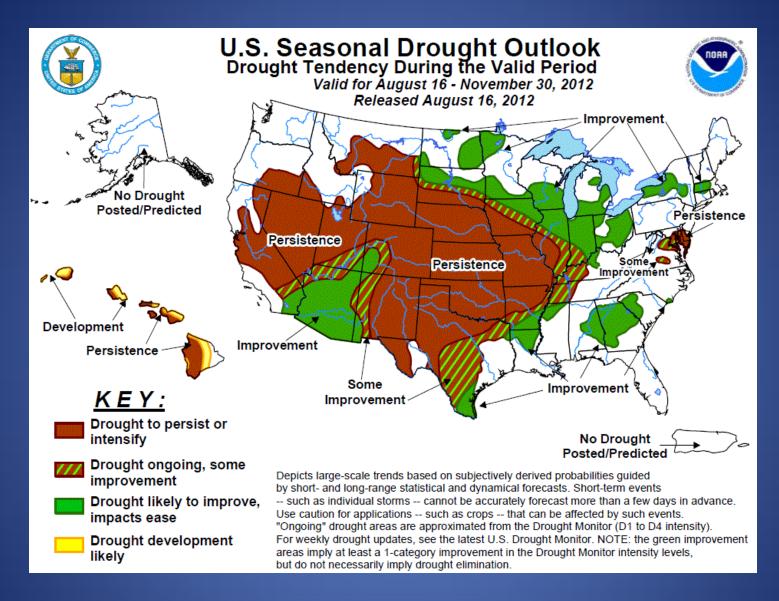
(September - November)



Temperature

Precipitation

http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1





New version will be released this week. I don't expect major changes.

Fire issues

- Red flag warning today
- Cooler temperatures for the rest of the week
- Slight chances for precipitation not widespread
- Fire behaviors continue to be worse on record and getting worse
- Typical safety areas burning
 - Wetlands, cattails, pastures, croplands
 - Organic matter burning
- Extreme fire behaviors expected in western/southern SD and Black Hills



Drought Outlook Summary

- Cooler this week/little precip maybe east river late in the week
- Return to warmer than average in Sept. likely
- Staying dry no pattern changes in the near future
- Watching El Nino

